

# Ming Liu

## List of Publications by Year in descending order

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28  
papers

5,480  
citations

218677

26  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

3008  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of heat treatment on the discharge performance of Mg-Al and Mg-Zn alloys as anodes for the Mg-air battery. <i>Chemical Engineering Journal</i> , 2022, 433, 133797.	12.7	25
2	A comprehensive review of the development of magnesium anodes for primary batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12367-12399.	10.3	72
3	Understanding the discharge behavior of an ultra-high-purity Mg anode for Mg-air primary batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21387-21401.	10.3	27
4	First-principles search for alloying elements that increase corrosion resistance of Mg with second-phase particles of transition metal impurities. <i>Computational Materials Science</i> , 2019, 165, 154-166.	3.0	29
5	Corrosion avoidance in lightweight materials for automotive applications. <i>Npj Materials Degradation</i> , 2018, 2, .	5.8	49
6	Stress corrosion cracking of several solution heat-treated Mg-X alloys. <i>Corrosion Science</i> , 2015, 96, 121-132.	6.6	41
7	Stress corrosion cracking of several hot-rolled binary Mg-X alloys. <i>Corrosion Science</i> , 2015, 98, 6-19.	6.6	26
8	Influence of casting porosity on the corrosion behaviour of Mg <sub>0.1</sub> Si. <i>Corrosion Science</i> , 2015, 94, 255-269.	6.6	37
9	Review of Recent Developments in the Field of Magnesium Corrosion. <i>Advanced Engineering Materials</i> , 2015, 17, 400-453.	3.5	595
10	Influence of hot rolling on the corrosion behavior of several Mg-X alloys. <i>Corrosion Science</i> , 2015, 90, 176-191.	6.6	140
11	Corrosion characterization of micro-arc oxidization composite electrophoretic coating on AZ31B magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2015, 621, 53-61.	5.5	93
12	Corrosion of ultra-high-purity Mg in 3.5% NaCl solution saturated with Mg(OH) <sub>2</sub> . <i>Corrosion Science</i> , 2013, 75, 78-99.	6.6	271
13	Impurity control and corrosion resistance of magnesium-aluminum alloy. <i>Corrosion Science</i> , 2013, 77, 143-150.	6.6	70
14	Corrosion behaviour in salt spray and in 3.5% NaCl solution saturated with Mg(OH) <sub>2</sub> of as-cast and solution heat-treated binary Mg-RE alloys: RE=Ce, La, Nd, Y, Gd. <i>Corrosion Science</i> , 2013, 76, 98-118.	6.6	143
15	Corrosion behaviour in salt spray and in 3.5% NaCl solution saturated with Mg(OH) <sub>2</sub> of as-cast and solution heat-treated binary Mg-X alloys: X=Mn, Sn, Ca, Zn, Al, Zr, Si, Sr. <i>Corrosion Science</i> , 2013, 76, 60-97.	6.6	212
16	The ignition temperature of Mg alloys WE43, AZ31 and AZ91. <i>Corrosion Science</i> , 2012, 54, 139-142.	6.6	77
17	Corrosion mechanism applicable to biodegradable magnesium implants. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1609-1636.	3.5	355
18	Electrochemical reactivity, surface composition and corrosion mechanisms of the complex metallic alloy Al <sub>3</sub> Mg <sub>2</sub> . <i>Corrosion Science</i> , 2010, 52, 562-578.	6.6	78

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19	Measurement of the corrosion rate of magnesium alloys using Tafel extrapolation. Corrosion Science, 2010, 52, 579-588.	6.6	774
20	The influence of yttrium (Y) on the corrosion of Mg-Y binary alloys. Corrosion Science, 2010, 52, 3687-3701.	6.6	299
21	Calculated phase diagrams and the corrosion of die-cast Mg-Al alloys. Corrosion Science, 2009, 51, 602-619.	6.6	296
22	A first quantitative XPS study of the surface films formed, by exposure to water, on Mg and on the Mg-Al intermetallics: Al <sub>3</sub> Mg <sub>2</sub> and Mg <sub>17</sub> Al <sub>12</sub> . Corrosion Science, 2009, 51, 1115-1127.	6.6	234
23	An exploratory study of the corrosion of Mg alloys during interrupted salt spray testing. Corrosion Science, 2009, 51, 1277-1292.	6.6	238
24	ToF-SIMS depth profile of the surface film on pure magnesium formed by immersion in pure water and the identification of magnesium hydride. Corrosion Science, 2009, 51, 1883-1886.	6.6	66
25	Calculated phase diagrams, iron tolerance limits, and corrosion of Mg-Al alloys. Jom, 2008, 60, 39-44.	1.9	78
26	The effect of crystallographic orientation on the active corrosion of pure magnesium. Scripta Materialia, 2008, 58, 421-424.	5.2	253
27	Influence of the $\beta$ -phase morphology on the corrosion of the Mg alloy AZ91. Corrosion Science, 2008, 50, 1939-1953.	6.6	524
28	Influence of pH and chloride ion concentration on the corrosion of Mg alloy ZE41. Corrosion Science, 2008, 50, 3168-3178.	6.6	378